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enable them to determine whether species from their own localities are desiderata. We happen to know that such correspondence will be welcomed by Mr. Holzinger, who has recently written us that he wishes to acknowledge his great obligation, both for material and for assistance in critical determinations, to Mrs. E. G. Britton and Mr. R. S. Williams of the New York Botanical Garden, as well as to the many collectors and students who have aided him in assembling material. Fascicle Nineteen contains the following species:—

451. *Amphidium lapponnicum*, Washington.
452. *A. Mougeotii*, Puy-de-Dome, France.
453. *Archidium alternifolium*, Florida.
454. *A. longifolium*, Florida.
455. *Bryum californicum*, Washington.
456. *Conostomum boreale*, New Hampshire.
457. *Desmatodon Porteri*, Pennsylvania.
458. *Dicranella Grevilleana*, Washington.
459. *D. heteromalla orthocarpa*, Florida.
460. *Dicranum fragilifolium*, Norway.
461. *Didymodon rigidulus*, California.
462. *Ditrichum vaginans*, Connecticut.
463. *Encalypta leiomitra*, Washington.
464. *E. vulgaris obtusa*, Alberta.
465. *Fissidens Donnellii*, Florida.
466. *F. subbasilaris*, Florida.
467. *F. taxifolius*, New York.
468. *Hyophila riparia*, Pennsylvania.
469. *Orthotrichum Braunii*, , Vermont.
470. *O. Jamesianum*, Colorado.
471. *Philonotis gracillima*, Kansas.
472. *Physcomitrium megalocarpum*, Florida.
473. *Pleuridium Ravenelii*, S. Carolina.
474. *Syrrhopodon ligulatus*, Florida.
475. *Tortula obtusifolia*, France and Switzerland.

NOTES ON CURRENT BOTANICAL LITERATURE

H. N. Dixon.—*On a collection of mosses from the Kanara District.* (Journ. Indian Bot. **2**: 174–188, *plate.* 1921.) The district mentioned, from which 50 species or varieties are listed, is on the western coast of British India, a little south of Goa. The following new species are described and details figured: *Archidium birmannicum* Mitt. Mss., *Leucoloma strictifolium* Dix., *Fissidens subfirmus* Dix., F. *karwarensis* Dix., F. *immutatus* Dix, F. *macrosporus* Dix., *Barbula dharwarensis* Dix., *Pinnatella elimbata* Dix., *Ctenidium stereodontoides* Dix., *Vesicularia Levieri* Card. Mss. In addition two new varieties are described (*in Campylopus* and *Brachymenium*), *Fissidens elimbatus* Broth., is reduced to a variety of *F. Walkeri* Broth., and *Hyophila involuta* (Hook,) Jaeg. is stated to include both *H. cylindrica* Jaeg. and *H. stenocarpa* R. &. C.

Holzinger, J. M., & T. C. Frye.—*Mosses of the Bureau of Soils Kelp Expedition to Alaska.* (Publ. Puget Sound Biol. Sta. **3**: 23–64. *pls. 4–8* (*containing figs. 1–35*). 1921).—A report on about 1000 packets of mosses collected at odd times by members of the Kelp Expedition mostly near the coast of southeastern or southwestern Alaska, with addition of material from various parts of Alaska and the Yukon accumulated at the University of Washington. The report lists 15 Sphagna, 2 Andreaeae, and 206 species and varieties of true mosses. One new combination, *Brachythecium pacificum* (R. & C.) Grout occurs; *Camptothecium paulianum* Grout, *Hypnum tananae* Grout, and *Aulacomnium androgynum pygmaeum* Holz. & Frye are proposed as new, (none figured). Besides many extensions of range on the peninsula itself, forty-four species and eleven varieties are here first recorded for Alaska, two being new to America. A bibliography of fifty-one titles follows. The plates illustrate various details of *Dicranella squarrosa*, *Bryobrittonia pellucida*, and *Trachycystis flagellaris*. Each species has detailed citation of the collections there referred, and a general outline of the Alaskan distributions. More extended notes on various topics are given for many species; especially *Geehebia gigantea* (Funk) Boul., *Zygodon Reinwardtii* (Hsch.) A. Br. (both new to America), *Trachycystis flagellaris* (S. & L.) Lindb., *Bartramia breviseta* Lindb., *Philonotis Arnelli* Husn., and *Brachythecium pacificum* (R. & C.) Grout.

R. POTIER DE LA VARDE.—*Bartramia stricta Brid. sur le littoral de la Manche.* (Revue bryologique **47**: 73. 1920.)—A record of collection at St-Jean-le-Thomas.

ARNELL.—*Necrologie*: *Scandinavian Bryologist that have died in last years.* [sic.] (Revue bryologique **47**: 74—75. 1920).—Records the deaths of Berggren. Bryhn, Hagen, and Kaalaas, with a bibliography of their more important works.

G. DISMIER.—*Note sur quatre numéros d'exisiccata.* (Revue bryologique **48**: 28–29. 1921).—Number 62 of the Musci Galliae is *Pottia minutula* not *Anacalypta Starkeana*; Nr. 88 of the same set is *Harpalejeunea ovata* (Hook.) Schiffn. as far as specimen B is concerned, specimen A is correctly named *Lejeunea minutissima* Dum.; Nr. 780 of the Musc. Gall. issued as *Plagiothecium denticulatum* Sch. var. *myurum* Schp. is *Isopterygium elegans*. Nr. 402 of Bauer, Musci europ. exsic. issued as *Bryum arvernense* Douin is *Anomobryum sericeum.*

J. AMANN.—*L'indice cellulaire chez les Muscinées.* (Revue bryologique **48**: 33–38. 1921.)—The dimensions of the foliar cells in mosses frequently enable one to distinguish closely related species, even though the foliar cells vary considerably on different specimens. The author proposes to supplement the present method of stating length and width of cells by an "*Index cellulaire*" based upon the average of measurements of the number of cells per square millimeter in the median leaf surface. These measuremants also produce more exact values for the length and width measurements. The author gives careful directions as to methods, errors to be avoided, and cites a large number of examples illustrative of the method and its utility.

W. E. NICHOLSON.—*Bryological notes from Sicily.* (Revue bryologique **48**: 38—43. 1921.)—An annotated list of 47 mosses and 16 hepatics from northern Sicily with some account of the general character of the vegetation. Author considers *Bryum siculum* Roth inseparable even as a variety from *B. splachnoides* (Harv.) C. M. There are notes on characters of *Reboulia Charrieri* Douin and *Scapania compacta* var. *Birotiana* Mass.

W. INGHAM.—*Georgian Mosses.* (Revue bryologique **48**: 43. 1921.)—A list of 14 mosses, without notes or data, collected by Mr Brinkman in British Columbia.

I. THÉRIOT .—*Considérations sur la flora bryologique de la Nouvelle-Calédonie et Diagnoses d'espèces nouvelles* (*Continuation.*) (Revue bryologique **48**: 11–16; 22--28; 54--59. 1921.).—The author describes over thirty species as new, gives notes upon a number of other species new to the New Caledonian flora, and corrects certain errors in previous determinations. The new genus *Bryobrothera* is proposed for the species known as *Mesochaete crenulata* Broth. & Par.

There are many notes upon species mentioned by Bescherelle in the Florule bryologique de la Nouvelle-Calédonie.

P. CULMANN.—*Sur quelques mousses d'Auvergne à peristome imparfait.* (Revue bryologique **48**: 17--22. 1921.)—The article deals principally with *Tortula obtusifolia* Schleich., *Desmatodon arenaceus* Sull. and *Grimmia plagiopoda* var. *avernica* (Phil.) Boul. The author finds that there are three forms of *T. obtusifolia* in the Auvergne, one agreeing with Schwaegrichen's figure, another (proposed as var. *pilifera*) with piliferous leaves and rudimentary peristome, the third with piliferous leaves and a well developed peristome. The author concludes that *T. obtusifolia* is a subspecies of *T. muralis* and not related to the atrovirens-group. Comparisons of *Desmatodon arenaceus* made in course of the preceding study lead the author to consider Hagen in error in referring this plant to *T. obtusifolia*, American material differing greatly in the peristome. The author considers *D. arenaceus* a good species and proposes the name *Tortula arenacea*. Author states that Loeske is in error on considering *Grimmia plagiopoda avernica* merely a piliferous form: material from the Auvergne differs constantly in possessing a rudimentary peristome.

G. DISMIER.—*Localities nouvelles de Muscinées rares ou peu connus en France.* (Revue bryologique **48**: 49--52. 1921.)—A list with localities of *11* hepatics and 38 mosses.

G. DISMIER.—*Observations sur le Didymodon cordatus Jur.* (Revue bryoologique **48**:52--53. 1921.)—In noting new stations for *Didymodon cordatus* in southwest France, M. Dismier takes occasion to compare this species with *D. luridus* and *D. rigidulus*, concluding that it should be regarded as a subspecies of the latter.

J. AMANN.—*Bryum turgescens Hagen et le Nr. 397 des Musci Europaei de Bauer.* (Revue brologique **48**: 59–60. 1921.)—An examination of the material distributed by Bauer as well as material of the same collection in the Bryotheca helvetica indicates that the specimens do not represent the plant described by Hagen as ***Bryum turgescens***, but rather slender states of ***B. neodamense*** Itzig.

R. HENRY.—*Le Lophozia Kunzeana (Hüb.) E ans dans les Vosges et liste des muscinées recueilliés au Honeck.* (Revue bryologique **48**: 60–62. 1921.) —A list of 26 species, mosses and hepatics, with special note on the occurrence of the *Lophozia* mentioned in the title.

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Among Members of the Sullivant Moss Society *only*. A stamped envelope should accompany the request for the specimens.

Pleuridium subulatum (L.) Rabenhorst and ***Bruchia Sullivantii*** Austin, both collected, fruiting, in Worcester, Mass., by Helen E. Greenwood.—Address Miss Helen E. Greenwood, 12 Hudson St., Worcester, Mass.